

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TECH CENTER 1600/2900

In re application of:

LIBERMANN *et al.*

Appl. No. 09/126,945

Filed: July 31, 1998

For: Prostate Derived Ets Factor

Confirmation No.: 9528

Art Unit: 1632

Examiner: Priebe, S.

Atty. Docket: PF469

DECLARATION OF TOWIA LIBERMANN UNDER 37 C.F.R. § 1.131

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

I, Towia Libermann, hereby declare and state the following:

1. I am a named inventor of the captioned application.
2. I possessed, in this country prior to April 3, 1998, a polynucleotide having the nucleotide sequence of SEQ ID NO:1, as set forth in the captioned application. The following is provided as evidence of such possession.
3. Prior to April 3, 1998, I possessed a cDNA having the designation ETS-4. Moreover, prior to April 3, 1998, I determined that the cDNA having the designation ETS-4 has a nucleotide sequence corresponding to the nucleotide sequence disclosed in the captioned application as SEQ ID NO:1.
4. Attached hereto as Exhibit A is a redacted copy of an electronic notebook page from DNA Strider™ 1.2 disclosing the nucleotide sequence of the cDNA ETS-4. DNA Strider™ is a sequence analysis software program designed for Power Macintosh computers.
5. The date on which the DNA Strider™ 1.2 electronic notebook page was generated, which has been redacted from Exhibit A, is prior to April 3, 1998.

Consented  
5/2/03

6. Attached hereto as Exhibit B is a redacted copy of a MegAlign electronic alignment comparing the cDNA ETS-4 sequence against SEQ ID NO:1 of the captioned application. MegAlign is a part of the Lasergene sequence analysis software by DNASTAR, Inc., and performs pairwise and multiple alignments of DNA or protein sequences.
7. Exhibits A-B provide a basis for the foregoing demonstration.
8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application captioned above or any patents issuing thereupon.

4/1/03  
Date

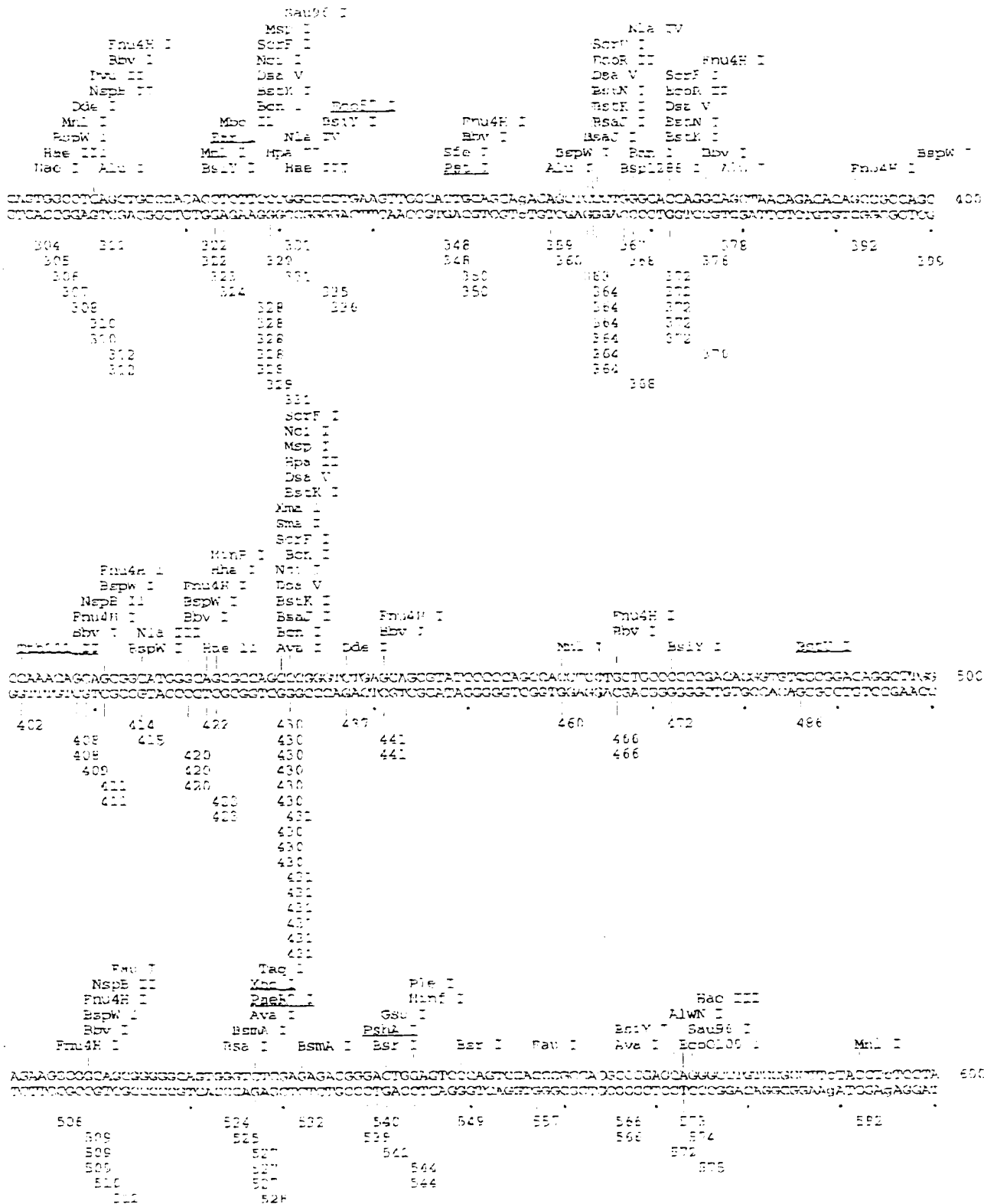
Towia Libermann  
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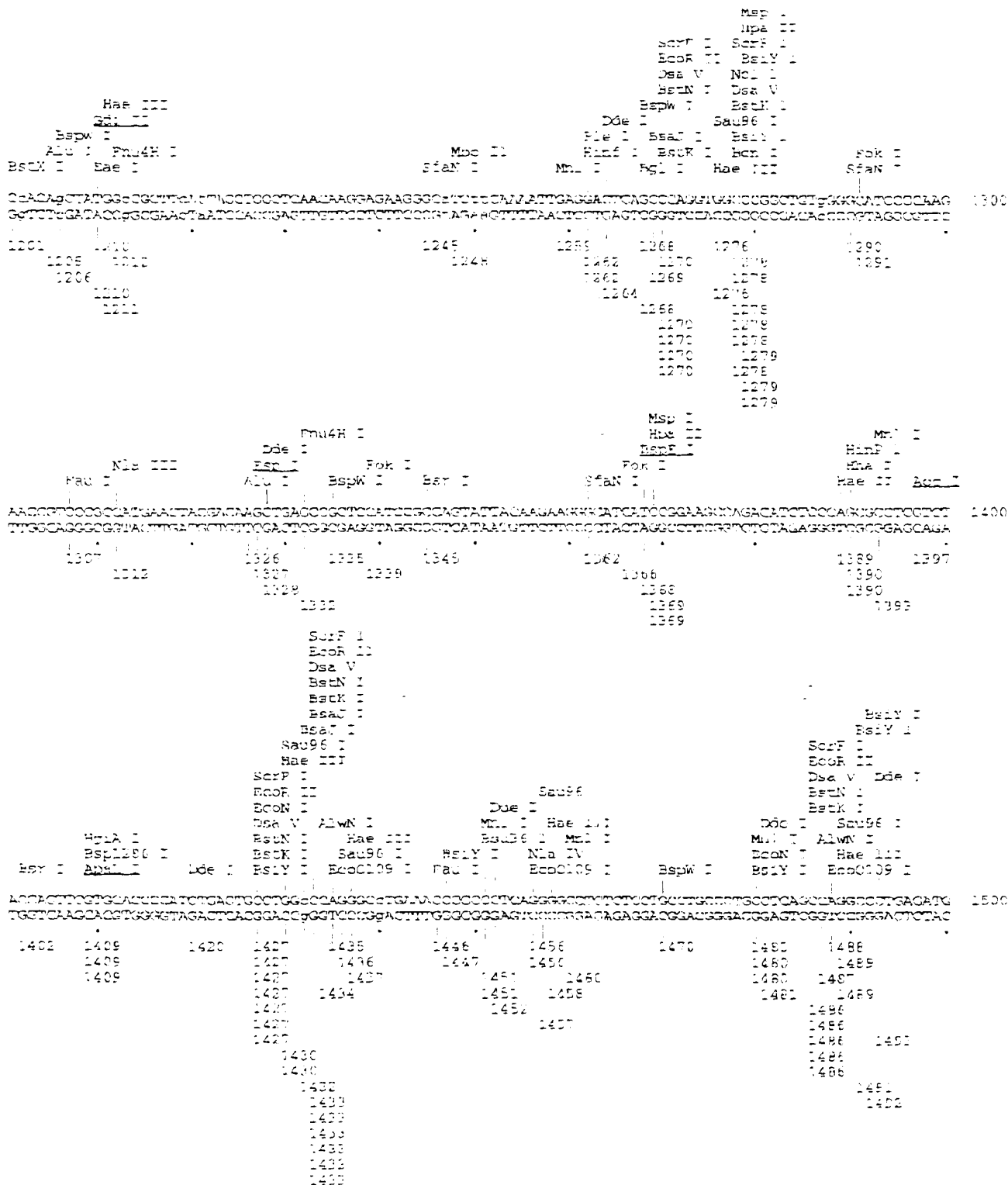
# Exhibit A

Min 1	Seq 1	Seq 2	Seq 3	Seq 4	Seq 5	Seq 6	Seq 7	Seq 8	Seq 9	Seq 10	Seq 11	Seq 12	Seq 13	Seq 14	Seq 15	Seq 16	Seq 17	Seq 18	Seq 19	Seq 20	Seq 21	Seq 22	Seq 23	Seq 24	Seq 25	Seq 26	Seq 27	Seq 28	Seq 29	Seq 30	Seq 31	Seq 32	Seq 33	Seq 34	Seq 35	Seq 36	Seq 37	Seq 38	Seq 39	Seq 40	Seq 41	Seq 42	Seq 43	Seq 44	Seq 45	Seq 46	Seq 47	Seq 48	Seq 49	Seq 50	Seq 51	Seq 52	Seq 53	Seq 54	Seq 55	Seq 56	Seq 57	Seq 58	Seq 59	Seq 60	Seq 61	Seq 62	Seq 63	Seq 64	Seq 65	Seq 66	Seq 67	Seq 68	Seq 69	Seq 70	Seq 71	Seq 72	Seq 73	Seq 74	Seq 75	Seq 76	Seq 77	Seq 78	Seq 79	Seq 80	Seq 81	Seq 82	Seq 83	Seq 84	Seq 85	Seq 86	Seq 87	Seq 88	Seq 89	Seq 90	Seq 91	Seq 92	Seq 93	Seq 94	Seq 95	Seq 96	Seq 97	Seq 98	Seq 99	Seq 100																				
10	25	34	58	59	64	75	76	80	81	86	87	90	91	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200



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[illegible]

REGISTRATION OF INDIAN CASES will appear

[illegible][illegible][illegible]

[illegible]

## EFTS-4 full length ? -&gt; Full Restriction Map

Map 1	cc/egg	9	5111 2361 4 1111 3281 2 6111 2361 4 1111 3271 3 1401 4091 2	1149 1301 0 1301 1021 1 1149 1301 6 1301 1021 6 1149 1291 1	1178 801 8 1431 2541 3 1279 901 8 1430 1111 9 1178 2541 1	1365 481 1 698 481 4 1365 481 1 1431 2541 4 1365 481 1	1801 481 10 741 1111 1 1801 481 10 691 481 1 1801 481 8
Bsp1286	g/ggac/c	10	1111 3661 2 801 821 6 1858 521 1 1111 4111 1 1858 521 1	1361 1021 3 868 1111 0 1111 4111 1 1361 1021 3 1111 4111 1	691 481 8 901 501 1 1111 4111 1 1361 1021 3 1111 4111 1	737 124 11 1409 1121 5 1111 4111 1 1361 1021 3 1111 4111 1	761 421 9 1541 318 4 1111 4111 1 1361 1021 3 1111 4111 1
Nla III	catg/	10	1111 4111 1 1858 521 1 1111 4111 1 1858 521 1	1361 1021 3 868 1111 0 1111 4111 1 1361 1021 3 1111 4111 1	691 481 8 901 501 1 1111 4111 1 1361 1021 3 1111 4111 1	737 124 11 1409 1121 5 1111 4111 1 1361 1021 3 1111 4111 1	761 421 9 1541 318 4 1111 4111 1 1361 1021 3 1111 4111 1
Nla I	ag/c	10	1111 801 10 601 3021 5 1111 801 10 601 3021 5	1361 1021 3 868 1111 0 1111 801 10 601 3021 5	691 481 8 901 501 1 1111 801 10 601 3021 5	737 124 11 1409 1121 5 1111 801 10 601 3021 5	761 421 9 1541 318 4 1111 801 10 601 3021 5
Dde I	g/cctag	10	1111 901 6 2901 181 16 1684 5801 1 1111 121 11 1684 5801 1	1361 1021 3 868 1111 0 1111 901 6 2901 181 16 1684 5801 1	691 481 8 901 501 1 1111 901 6 2901 181 16 1684 5801 1	737 124 11 1409 1121 5 1111 901 6 2901 181 16 1684 5801 1	761 421 9 1541 318 4 1111 901 6 2901 181 16 1684 5801 1
Nla IV	ggg/gcc	10	1111 1161 6 271 591 6 1684 5801 1 1111 1161 6 271 591 6	1361 1021 3 868 1111 0 1111 1161 6 271 591 6 1684 5801 1	691 481 8 901 501 1 1111 1161 6 271 591 6 1684 5801 1	737 124 11 1409 1121 5 1111 1161 6 271 591 6 1684 5801 1	761 421 9 1541 318 4 1111 1161 6 271 591 6 1684 5801 1
Sau96	g/gncc	10	1111 1041 6 1111 591 10 1111 1041 6 1111 591 10	1361 1021 3 868 1111 0 1111 1041 6 1111 591 10	691 481 8 901 501 1 1111 1041 6 1111 591 10	737 124 11 1409 1121 5 1111 1041 6 1111 591 10	761 421 9 1541 318 4 1111 1041 6 1111 591 10
BspW	ggnnnnn/gncc	20	1111 2011 0 1091 121 18 691 511 9 1111 2011 0 1091 121 18	1361 1021 3 868 1111 0 1111 2011 0 1091 121 18	691 481 8 901 501 1 1111 2011 0 1091 121 18	737 124 11 1409 1121 5 1111 2011 0 1091 121 18	761 421 9 1541 318 4 1111 2011 0 1091 121 18
BstN	cc/wgg	21	1111 131 5 364 81 21 1003 271 18 1421 591 15 1759 411 14	1361 1021 3 868 1111 0 1111 131 5 364 81 21 1003 271 18	691 481 8 901 501 1 1111 131 5 364 81 21 1003 271 18	737 124 11 1409 1121 5 1111 131 5 364 81 21 1003 271 18	761 421 9 1541 318 4 1111 131 5 364 81 21 1003 271 18
EcoR	cc/wgg	22	1111 131 5 364 81 21 1003 271 18 1421 591 15 1759 411 14	1361 1021 3 868 1111 0 1111 131 5 364 81 21 1003 271 18	691 481 8 901 501 1 1111 131 5 364 81 21 1003 271 18	737 124 11 1409 1121 5 1111 131 5 364 81 21 1003 271 18	761 421 9 1541 318 4 1111 131 5 364 81 21 1003 271 18
BstI	gc/ggc	8/12 23	1111 741 11 211 381 17 481 261 21 711 1091 6 1504 111 9	1361 1021 3 868 1111 0 1111 741 11 211 381 17 481 261 21	691 481 8 901 501 1 1111 741 11 211 381 17 481 261 21	737 124 11 1409 1121 5 1111 741 11 211 381 17 481 261 21	761 421 9 1541 318 4 1111 741 11 211 381 17 481 261 21
Kae III	gg/gcc	21	1111 101 10 211 381 17 481 261 21 711 1091 6 1504 111 9	1361 1021 3 868 1111 0 1111 101 10 211 381 17 481 261 21	691 481 8 901 501 1 1111 101 10 211 381 17 481 261 21	737 124 11 1409 1121 5 1111 101 10 211 381 17 481 261 21	761 421 9 1541 318 4 1111 101 10 211 381 17 481 261 21
BsaI	c/cnngg	27	1111 101 10 211 381 17 481 261 21 711 1091 6 1504 111 9	1361 1021 3 868 1111 0 1111 101 10 211 381 17 481 261 21	691 481 8 901 501 1 1111 101 10 211 381 17 481 261 21	737 124 11 1409 1121 5 1111 101 10 211 381 17 481 261 21	761 421 9 1541 318 4 1111 101 10 211 381 17 481 261 21
BstY	ggnnnnn/gnngg	29	1111 951 8 181 1301 5 691 511 9 1111 951 8 181 1301 5	1361 1021 3 868 1111 0 1111 951 8 181 1301 5 691 511 9	691 481 8 901 501 1 1111 951 8 181 1301 5 691 511 9	737 124 11 1409 1121 5 1111 951 8 181 1301 5 691 511 9	761 421 9 1541 318 4 1111 951 8 181 1301 5 691 511 9
Eco4H	gc/ggc	29	1111 141 11 1111 141 11 1111 141 11 1111 141 11 1111 141 11	1361 1021 3 868 1111 0 1111 141 11 1111 141 11 1111 141 11	691 481 8 901 501 1 1111 141 11 1111 141 11 1111 141 11	737 124 11 1409 1121 5 1111 141 11 1111 141 11 1111 141 11	761 421 9 1541 318 4 1111 141 11 1111 141 11 1111 141 11
BstK	c/cnngg	31	1111 1121 4 1111 1121 4 1111 1121 4 1111 1121 4 1111 1121 4	1361 1021 3 868 1111 0 1111 1121 4 1111 1121 4 1111 1121 4	691 481 8 901 501 1 1111 1121 4 1111 1121 4 1111 1121 4	737 124 11 1409 1121 5 1111 1121 4 1111 1121 4 1111 1121 4	761 421 9 1541 318 4 1111 1121 4 1111 1121 4 1111 1121 4
Eco4H	gc/ggc	31	1111 1121 4 1111 1121 4 1111 1121 4 1111 1121 4 1111 1121 4	1361 1021 3 868 1111 0 1111 1121 4 1111 1121 4 1111 1121 4	691 481 8 901 501 1 1111 1121 4 1111 1121 4 1111 1121 4	737 124 11 1409 1121 5 1111 1121 4 1111 1121 4 1111 1121 4	761 421 9 1541 318 4 1111 1121 4 1111 1121 4 1111 1121 4

## ETS-4 full length ? -&gt; Full Restriction Map

				12701	8129	12761	14913	14271	6130	14331	5314	14901	8117
				1574	7513	16491	11016	17591	47126	16051	4418	16501	11127
				18611	11121	18621	46119						
Scrr I	ccwngg	31		1	13214	1331	7519	208	54113	3671	23121	2851	43119
				328	36120	3641	8128	3221	58112	4301	11121	4311	21119
				6471	47115	6541	33121	21	13126	7401	20012	9401	163119
				10021	21122	10301	33124	10501	33125	10751	13110	11491	123119
				12701	8129	12761	14913	14271	6130	14331	5314	14901	8117
				1574	7513	16491	11016	17591	47126	16051	4418	16501	11127
				18611	11121	18621	46119						
Mal I	ccgc	34		1	9131	101	54114	641	12120	981	63117	1701	11114
				1641	14128	1951	38117	2361	11112	30117	11117	3111	136119
				4601	13014	5321	18113	6201	48116	5551	12126	6111	21119
				7561	11911	9171	11115	10961	10130	11091	21123	11301	41119
				1171	32118	12551	134119	13931	53113	14511	61122	16601	120119
				14801	71110	15561	34119	15901	17118	16211	31125	10001	120119
				16531	7113	16601	30121	16901	74111	17641	23114	1781	121116

656 sites found

No Sites found for the following Restriction Endonucleases:

Aat II	gagcgc	BspI20 I	g/gggcc	Hind II	a/agcctt	Rst I	cg/gwccc
Afl I	c/cttacc	BspH I	r/cattga	Hpa I	gtt/aaa	Sac I	gagct/c
Afl I	a/crygt	BssH I	g/cgggc	Kas I	g/gggcc	Sac II	cggc/gg
Age I	a/ccggc	BstB I	ct/cgaa	Kpn I	ggttc/c	Sai I	g/tcgac
Aha II	gt/cgyc	BstE I	g/gnacc	Mae I	a/cgt	Sap I	ggtttacc 1.4
Apa I	ggggc/c	Cla I	at/cgat	Mor I	c/grycg	Sca I	agt/act
Asc I	ac/taat	Dra I	ttt/aaa	MLV	a/cggct	SgrA I	cr/cgggyc
Asp718	c/gtacc	Dra III	gacnnn/gtg	Mae I	t/tac	Sna I	gaa/tac
Avr I	c/stagg	Drd I	gacnnnn/rngac	Nae I	gac/gac	SnaB I	tac/gta
BamH I	g/gatcc	Eag I	c/gggcg	Nar I	gg/cgac	Spe I	a/ctagt
Bce I	ggggc/c	Ecl136 I	gag/ctc	Nde I	ca/tatg	Sph I	gcacg/c
Bbs	gaagac 2/6	EcoR I	g/aattc	Nhe I	g/stacc	Spl I	c/gtacc
Bcl I	c/gatca	EcoR V	gat/atc	Nci I	gn/gggcgc	Sse233 I	cctgca/gg
Bgl I	a/gatct	Ene I	ggc/gcc	Nci I	ccg/cga	Ssp I	aat/att
BsaA I	yaagtr	Fse I	ggcggg/cc	Nel I	atgca/t	Swz I	atcc/aaat
BsaI I	gathn/rnatc	Fsp I	tgt/gca	Pac I	ttaat/taa	Xba I	t/tcaga
BstI I	crry/cp	Hga I	gacgc 5/10	Pml I	cac/gtg	Xba I	gta/tac
Bsm I	gaatgc 1/1	Hind II	gty/tac	Pvu I	cgat/cg	Xba I	gaann/rnttc

# **Exhibit B**

	10	20	30	
1	G T C T G A C T T C C T C C C A G C A C A T T C C T G C A C			ETS-4.SEQ
1	G T C T G A C T T C C T C C C A G C A C A T T C C T G C A C			SEQ ID NO 1.SEQ
<hr/>				
	40	50	60	
31	T C T G C C G T G T C C A C A C T G C C C C A C A G A C C C			ETS-4.SEQ
31	T C T G C C G T G T C C A C A C T G C C C C A C A G A C C C			SEQ ID NO 1.SEQ
<hr/>				
	70	80	90	
61	A G T C C T C C A A G C C T G C T G C C A G C T C C C T G C			ETS-4.SEQ
61	A G T C C T C C A A G C C T G C T G C C A G C T C C C T G C			SEQ ID NO 1.SEQ
<hr/>				
	100	110	120	
91	A A G C C C C T C A G G T T G G G C C T T G C C A C G G T G			ETS-4.SEQ
91	A A G C C C C T C A G G T T G G G C C T T G C C A C G G T G			SEQ ID NO 1.SEQ
<hr/>				
	130	140	150	
121	C C A G C A G G C A G C C C T G G G C T G G G G G T A G G G			ETS-4.SEQ
121	C C A G C A G G C A G C C C T G G G C T G G G G G T A G G G			SEQ ID NO 1.SEQ
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	160	170	180	
151	G A C T C C C T A C A G G C A C G C A G C C C T G A G A C C			ETS-4.SEQ
151	G A C T C C C T A C A G G C A C G C A G C C C T G A G A C C			SEQ ID NO 1.SEQ
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	190	200	210	
181	T C A G A G G G C C A C C C C T T G A G G G T G G C C A G G			ETS-4.SEQ
181	T C A G A G G G C C A C C C C T T G A G G G T G G C C A G G			SEQ ID NO 1.SEQ
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	220	230	240	
211	C C C C C A G T G G C C A A C C T G A G T G C T G C C T C T			ETS-4.SEQ
211	C C C C C A G T G G C C A A C C T G A G T G C T G C C T C T			SEQ ID NO 1.SEQ
<hr/>				
	250	260	270	
241	G C C A C C A G C C C T G C T G G C C C C T G G T T C C G C			ETS-4.SEQ
241	G C C A C C A G C C C T G C T G G C C C C T G G T T C C G C			SEQ ID NO 1.SEQ

	280	290	300	
271	T G G C C C C C C A G A T G C C T G G C T G A G A C A C G C			ETS-4.SEQ
271	T G G C C C C C C A G A T G C C T G G C T G A G A C A C G C			SEQ ID NO 1.SEQ
<hr/>				
	310	320	330	
301	C A G T G G C C T C A G C T G C C C A C A C C T C T T C C C			ETS-4.SEQ
301	C A G T G G C C T C A G C T G C C C A C A C C T C T T C C C			SEQ ID NO 1.SEQ
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	340	350	360	
331	G G C C C C T G A A G T T G G C A C T G C A G C A G A C A G			ETS-4.SEQ
331	G G C C C C T G A A G T T G G C A C T G C A G C A G A C A G			SEQ ID NO 1.SEQ
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	370	380	390	
361	C T C C C T G G G C A C C A G G C A G C T A A C A G A C A C			ETS-4.SEQ
361	C T C C C T G G G C A C C A G G C A G C T A A C A G A C A C			SEQ ID NO 1.SEQ
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	400	410	420	
391	A G C C G C C A G C C C A A A C A G C A G C G G C A T G G G			ETS-4.SEQ
391	A G C C G C C A G C C C A A A C A G C A G C G G C A T G G G			SEQ ID NO 1.SEQ
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	430	440	450	
421	C A G C G C C A G C C C G G G T C T G A G C A G C G T A T C			ETS-4.SEQ
421	C A G C G C C A G C C C G G G T C T G A G C A G C G T A T C			SEQ ID NO 1.SEQ
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	460	470	480	
451	C C C C A G C C A C C T C C T G C T G C C C C C C G A C A C			ETS-4.SEQ
451	C C C C A G C C A C C T C C T G C T G C C C C C C G A C A C			SEQ ID NO 1.SEQ
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	490	500	510	
481	G G T G T C G C G G A C A G G C T T G G A G A A G G C G G C			ETS-4.SEQ
481	G G T G T C G C G G A C A G G C T T G G A G A A G G C G G C			SEQ ID NO 1.SEQ
<hr/>				
	520	530	540	
511	A G C G G G G G C A G T G G G T C T C G A G A G A C G G G A			ETS-4.SEQ
511	A G C G G G G G C A G T G G G T C T C G A G A G A C G G G A			SEQ ID NO 1.SEQ



	550	560	570	
541	C T G G A G T C C C A G T C C A C C C G C C A C G C C C G A			ETS-4.SEQ
541	C T G G A G T C C C A G T C C A C C C G C C A C G C C C G A			SEQ ID NO 1.SEQ
<hr/>				
	580	590	600	
571	G C A G G G C C T G T C C G C C T T C T A C C T C T C C T A			ETS-4.SEQ
571	G C A G G G C C T G T C C G C C T T C T A C C T C T C C T A			SEQ ID NO 1.SEQ
<hr/>				
	610	620	630	
601	C T T T G A C A T G C T G T A C C C T G A G G A C A G C A G			ETS-4.SEQ
601	C T T T G A C A T G C T G T A C C C T G A G G A C A G C A G			SEQ ID NO 1.SEQ
<hr/>				
	640	650	660	
631	C T G G G C A G C C A A G G C C C C T G G G G C C A G C A G			ETS-4.SEQ
631	C T G G G C A G C C A A G G C C C C T G G G G C C A G C A G			SEQ ID NO 1.SEQ
<hr/>				
	670	680	690	
661	T C G G G A G G A G C C A C C T G A G G A G C C T G A G C A			ETS-4.SEQ
661	T C G G G A G G A G C C A C C T G A G G A G C C T G A G C A			SEQ ID NO 1.SEQ
<hr/>				
	700	710	720	
691	G T G C C C G G T C A T T G A C A G C C A A G C C C C A G C			ETS-4.SEQ
691	G T G C C C G G T C A T T G A C A G C C A A G C C C C A G C			SEQ ID NO 1.SEQ
<hr/>				
	730	740	750	
721	G G G C A G C C T G G A C T T G G T G C C C G G C G G G C T			ETS-4.SEQ
721	G G G C A G C C T G G A C T T G G T G C C C G G C G G G C T			SEQ ID NO 1.SEQ
<hr/>				
	760	770	780	
751	G A C C T T G G A G G A G C A C T C G C T G G A G C A G G T			ETS-4.SEQ
751	G A C C T T G G A G G A G C A C T C G C T G G A G C A G G T			SEQ ID NO 1.SEQ
<hr/>				
	790	800	810	
781	G C A G T C C A T G G T G G T G G G C G A A G T G C T C A A			ETS-4.SEQ
781	G C A G T C C A T G G T G G T G G G C G A A G T G C T C A A			SEQ ID NO 1.SEQ

820 830 840  
811 G G A C A T C G A G A C G G C C T G C A A G C T G C T C A A ETS-4.SEQ  
811 G G A C A T C G A G A C G G C C T G C A A G C T G C T C A A SEQ ID NO 1.SEQ

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841 C A T C A C C G C A G A T C C C A T G G A C T G G A G C C C ETS-4.SEQ  
841 C A T C A C C G C A G A T C C C A T G G A C T G G A G C C C SEQ ID NO 1.SEQ

880 890 900  
871 C A G C A A T G T G C A G A A G T G G C T C C T G T G G A C ETS-4.SEQ  
871 C A G C A A T G T G C A G A A G T G G C T C C T G T G G A C SEQ ID NO 1.SEQ

910 920 930  
901 A G A G C A C C A A T A C C G G C T G C C C C C C A T G G G ETS-4.SEQ  
901 A G A G C A C C A A T A C C G G C T G C C C C C C A T G G G SEQ ID NO 1.SEQ

940 950 960  
931 C A A G G C C T T C C A G G A G C T G G C G G G C A A G G A ETS-4.SEQ  
931 C A A G G C C T T C C A G G A G C T G G C G G G C A A G G A SEQ ID NO 1.SEQ

970 980 990  
961 G C T G T G C G C C A T G T C G G A G G A G C A G T T C C G ETS-4.SEQ  
961 G C T G T G C G C C A T G T C G G A G G A G C A G T T C C G SEQ ID NO 1.SEQ

1000 1010 1020  
991 C C A G C G C T C G C C C C T G G G T G G G G A T G T G C T ETS-4.SEQ  
991 C C A G C G C T C G C C C C T G G G T G G G G A T G T G C T SEQ ID NO 1.SEQ

1030 1040 1050  
1021 G C A C G C C C A C C T G G A C A T C T G G A A G T C A G C ETS-4.SEQ  
1021 G C A C G C C C A C C T G G A C A T C T G G A A G T C A G C SEQ ID NO 1.SEQ

1060 1070 1080  
1051 G G C C T G G A T G A A A G A G C G G A C T T C A C C T G G ETS-4.SEQ  
1051 G G C C T G G A T G A A A G A G C G G A C T T C A C C T G G SEQ ID NO 1.SEQ

1100 1110  
T C G A C C A G T G A ETS-4.SEQ  
T C G A C C A G T G A SEQ ID NO 1.SEQ

1130 1140  
C G A G G T G G A C T C ETS-4.SEQ  
C G A G G T G G A C T C SEQ ID NO 1.SEQ

1160 1170  
C A T C C A C C T G T G ETS-4.SEQ  
C A T C C A C C T G T G SEQ ID NO 1.SEQ

1190 1200  
G C T A C T C A A G C C ETS-4.SEQ  
G C T A C T C A A G C C SEQ ID NO 1.SEQ

1220 1230  
C A T T A G G T G G C T ETS-4.SEQ  
C A T T A G G T G G C T SEQ ID NO 1.SEQ

1250 1260  
T C T T C A A A A T T G A ETS-4.SEQ  
T C T T C A A A A T T G A SEQ ID NO 1.SEQ

1280 1290  
C C C G G C T G T G G G G ETS-4.SEQ  
C C C G G C T G T G G G G SEQ ID NO 1.SEQ

1310 1320  
C C G C C A T G A A C T A ETS-4.SEQ  
C C G C C A T G A A C T A SEQ ID NO 1.SEQ

1340 1350  
C C A T C C G C C A G T A ETS-4.SEQ  
C C A T C C G C C A G T A SEQ ID NO 1.SEQ

	1360	1370	1380	
1351	T T A C A A G A A G G G C A T C A T C C G G A A G C C A G A			ETS-4.SEQ
1351	T T A C A A G A A G G G C A T C A T C C G G A A G C C A G A			SEQ ID NO 1.SEQ
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	1390	1400	1410	
1381	C A T C T C C C A G C G C C T C G T C T A C C A G T T C G T			ETS-4.SEQ
1381	C A T C T C C C A G C G C C T C G T C T A C C A G T T C G T			SEQ ID NO 1.SEQ
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	1420	1430	1440	
1411	G C A C C C C A T C T G A G T G C C T G G C C C A G G G C C			ETS-4.SEQ
1411	G C A C C C C A T C T G A G T G C C T G G C C C A G G G C C			SEQ ID NO 1.SEQ
<hr/>				
	1450	1460	1470	
1441	T G A A A C C C G C C C T C A G G G G C C T C T C T C C T G			ETS-4.SEQ
1441	T G A A A C C C G C C C T C A G G G G C C T C T C T C C T G			SEQ ID NO 1.SEQ
<hr/>				
	1480	1490	1500	
1471	C C T G C C C T G C C T C A G C C A G G C C C T G A G A T G			ETS-4.SEQ
1471	C C T G C C C T G C C T C A G C C A G G C C C T G A G A T G			SEQ ID NO 1.SEQ
<hr/>				
	1510	1520	1530	
1501	G G G G A A A A C G G G C A G T C T G C T C T G C T G C T C			ETS-4.SEQ
1501	G G G G A A A A C G G G C A G T C T G C T C T G C T G C T C			SEQ ID NO 1.SEQ
<hr/>				
	1540	1550	1560	
1531	T G A C C T T C C A G A G C C C A A G G T C A G G G A G G G			ETS-4.SEQ
1531	T G A C C T T C C A G A G C C C A A G G T C A G G G A G G G			SEQ ID NO 1.SEQ
<hr/>				
	1570	1580	1590	
1561	G C A A C C A A C T G C C C C A G G G G G A T A T G G G T C			ETS-4.SEQ
1561	G C A A C C A A C T G C C C C A G G G G G A T A T G G G T C			SEQ ID NO 1.SEQ
<hr/>				
	1600	1610	1620	
1591	C T C T G G G G C C T T C G G G A C C A T G G G G C A G G G			ETS-4.SEQ
1591	C T C T G G G G C C T T C G G G A C C A T G G G G C A G G G			SEQ ID NO 1.SEQ

1630 1640 1650  
1621 GTGCTTCCTCCTCAGGCCCAGCTGCTCCCC ETS-4.SEQ  
1621 GTGCTTCCTCCTCAGGCCCAGCTGCTCCCC SEQ ID NO 1.SEQ

1660 1670 1680  
1651 TGGAGGACAGAGGGAGACAGGGCTGCTCCCC ETS-4.SEQ  
1651 TGGAGGACAGAGGGAGACAGGGCTGCTCCCC SEQ ID NO 1.SEQ

1690 1700 1710  
1681 CAACACCTGCTCTGACCCAGCATTTCCA ETS-4.SEQ  
1681 CAACACCTGCTCTGACCCAGCATTTCCA SEQ ID NO 1.SEQ

1720 1730 1740  
1711 GAGCAGAGCCTACAGAAAGGGCAGTGACTCG ETS-4.SEQ  
1711 GAGCAGAGCCTACAGAAAGGGCAGTGACTCG SEQ ID NO 1.SEQ

1750 1760 1770  
1741 ACAAGGCCACAGGCAGTCCAGGCCCTCTCT ETS-4.SEQ  
1741 ACAAGGCCACAGGCAGTCCAGGCCCTCTCT SEQ ID NO 1.SEQ

1780 1790 1800  
1771 CTGCTCCAATCCCCCTGCTCTCCCATTTCTGCA ETS-4.SEQ  
1771 CTGCTCCAATCCCCCTGCTCTCCCATTTCTGCA SEQ ID NO 1.SEQ

1810 1820 1830  
1801 CCACACCTGGCATGGTGCAAGGGAGACATCT ETS-4.SEQ  
1801 CCACACCTGGCATGGTGCAAGGGAGACATCT SEQ ID NO 1.SEQ

1840 1850 1860  
1831 GCACCCCTGAGTTGGGCAAGCCAGGAGTGCC ETS-4.SEQ  
1831 GCACCCCTGAGTTGGGCAAGCCAGGAGTGCC SEQ ID NO 1.SEQ

1870 1880 1890  
1861 CCCGGGAATGGATAATAAAGATACTAGAGA ETS-4.SEQ  
1861 CCCGGGAATGGATAATAAAGATACTAGAGA SEQ ID NO 1.SEQ

1900

1891 A C T G A A A A A A A A A A A A  
1891 A C T G

ETS-4.SEQ

SEQ ID NO 1.SEQ